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No. XXI.

PUMP BARREL.

*The Sum of FIVE POUNDS was presented to Mr. W. AUST,
28, Somerset Place, Hoxton New Town, for his improved
Leaden Pump Barrel.*

THE object of Mr. Aust is to substitute a leaden barrel for the brass, bronze, or copper barrels that are usually employed. The advantages that he contemplates are, greater cheapness in the first cost, and a greater facility in attaching the barrel to the leaden pipe usually employed, by soldering the two together, than by a screwed joint with washers, &c. which is the only method whereby a copper barrel can be fixed on a leaden pipe.

A thin brass or copper cylinder truly formed, and long enough to constitute the chamber of the pump, is covered by a leaden barrel cast over it: the barrel is then drawn on a triblet, and formed into a cylindrical barrel, with a conoidal termination at that end to which the lead pipe is to be soldered.